



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C07F 15/02, 15/04, 15/06, 15/00, 9/00, C08F 10/00	A1	(11) International Publication Number: WO 00/47592 (43) International Publication Date: 17 August 2000 (17.08.00)
(21) International Application Number: PCT/GB99/04350 (22) International Filing Date: 22 December 1999 (22.12.99) (30) Priority Data: 9902697.3 9 February 1999 (09.02.99) GB (71) Applicant (for all designated States except US): BP CHEMICALS LIMITED [GB/GB]; Britannic House, 1 Finsbury Circus, London EC2M 7BA (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): BOCHMANN, Manfred [DE/GB]; 1 Churchfield, Cringleford, Norwich NR4 6UP (GB). SANSFIELD, Mark, John [GB/GB]; 57 Ramsden Court, Milford Street, Huddersfield HD1 3DY (GB). (74) Agent: HAWKINS, David, George; BP International Limited, Patents & Agreements, Chertsey Road, Sunbury-on-Thames, Middlesex TW16 7LN (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: METAL COMPLEXES AS CATALYST COMPONENT FOR OLEFIN POLYMERIZATION		
<div style="text-align: center;"> <p style="text-align: right;">(I)</p> </div>		
(57) Abstract <p>Novel nitrogen containing transition metal complexes have general formula (I); wherein M is Fe[II], Fe[III], Ni[II], Co[I], Co[II], Co[III], V[III], Mn[I], Mn[II], Mn[III], Mn[IV], Ru[II], Ru[III] or Ru[IV]; Pd[II], V[III], V[IV] or V[V]. X represents an atom or group covalently or ionically bonded to the transition metal M; R is independently selected from hydrogen, halogen, hydrocarbyl, substituted hydrocarbyl, heterohydrocarbyl or substituted heterohydrocarbyl; Z is a bridging group comprising a donor atom of N, P or S or alternatively is a neutral group comprising a C₁-C₄ alkylene group, a silyl or germyl group, and n = an integer to satisfy the valency of M. The complexes are suitable for use on the polymerisation and copolymerisation of olefins.</p>		